

FIG. 1

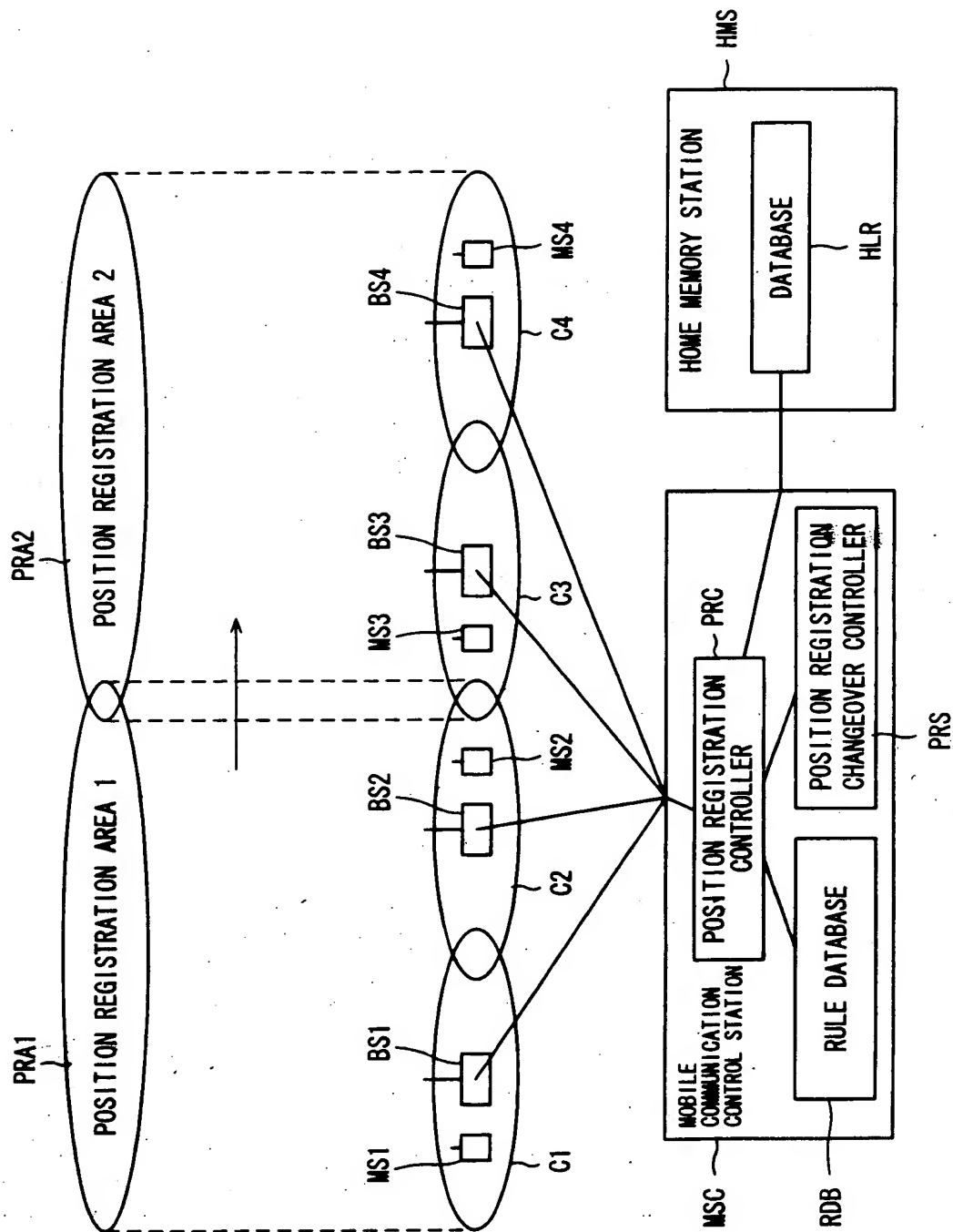


FIG. 2

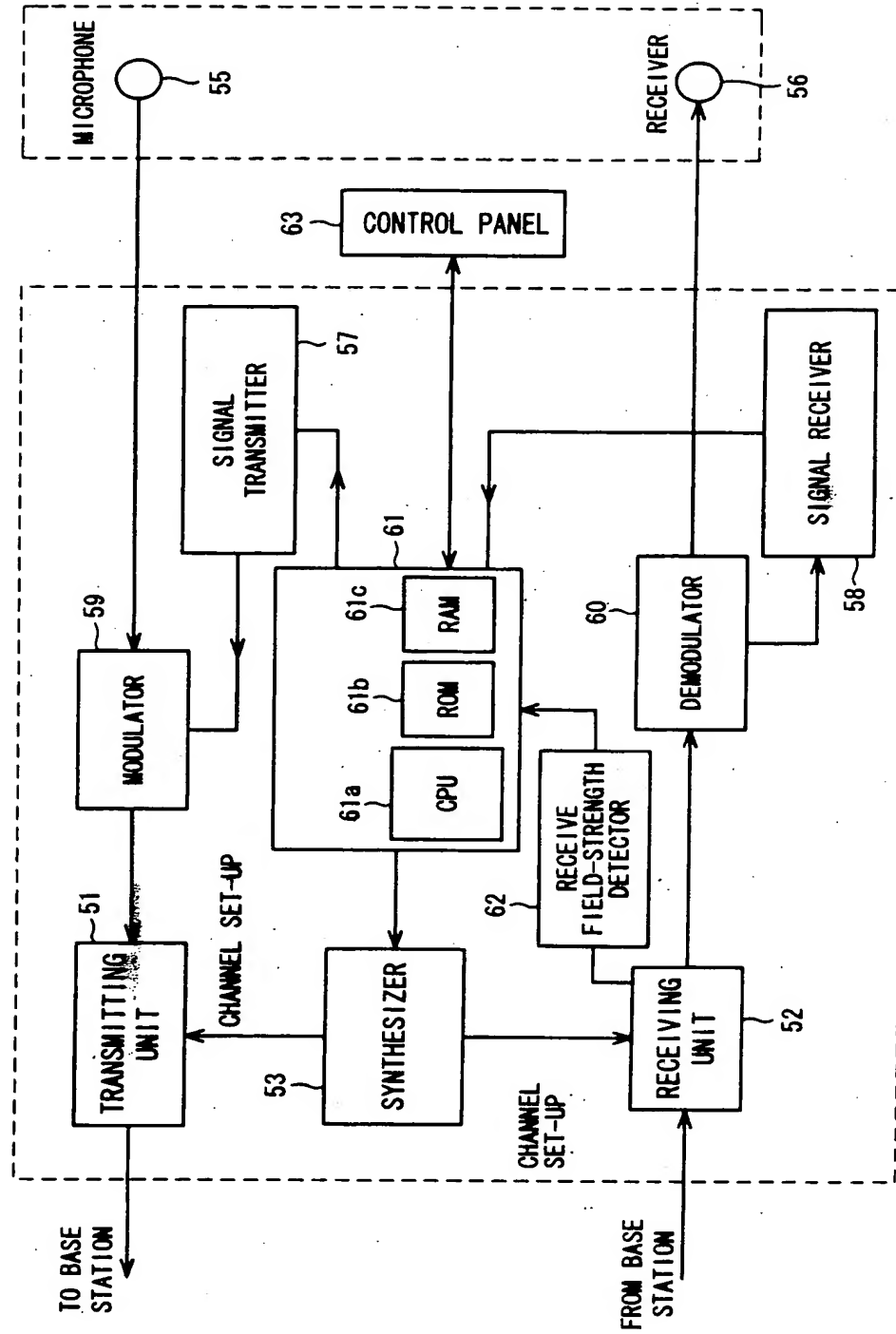


FIG. 3

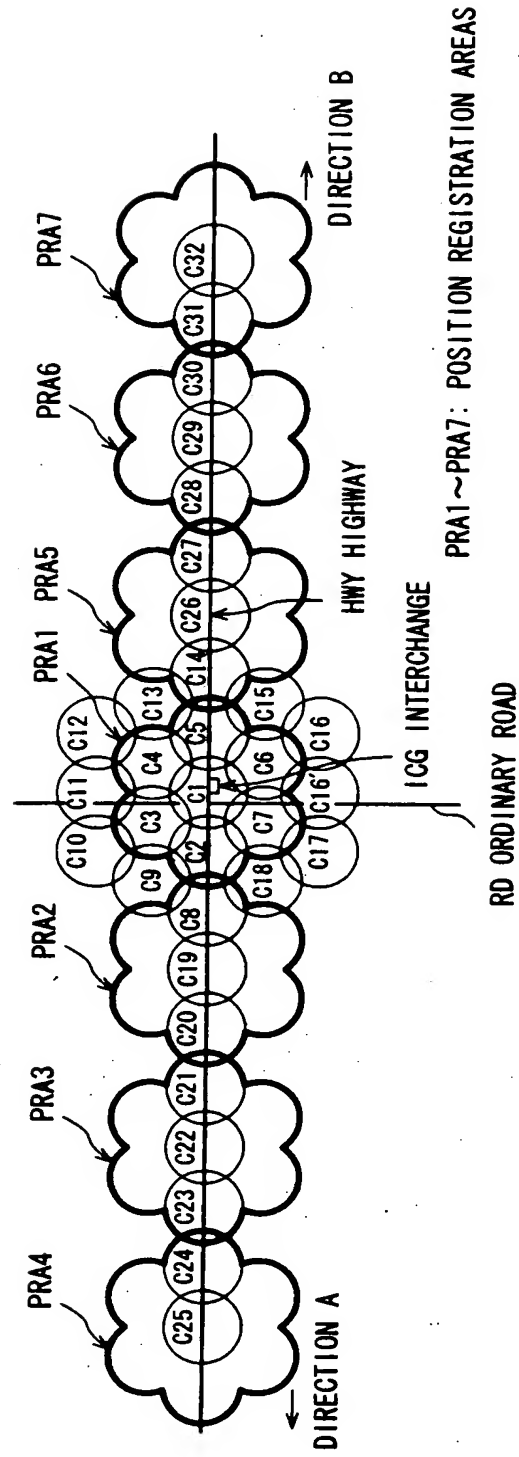


FIG. 4

POSITION REGISTRATION AREA AND RADIO ZONE NO.

POSITION REGISTRATION AREA ID	RADIO ZONE IDs
L1	C1, C2, C3, C4, C5, C6, C7
L2	C8, C19, C20, . . .
L3	C21, C22, C23, . . .
L4	C24, C25, . . .
L5	C14, C26, C27, . . .
L6	C28, C29, C30, . . .
L7	C31, C32, . . .

FIG. 5

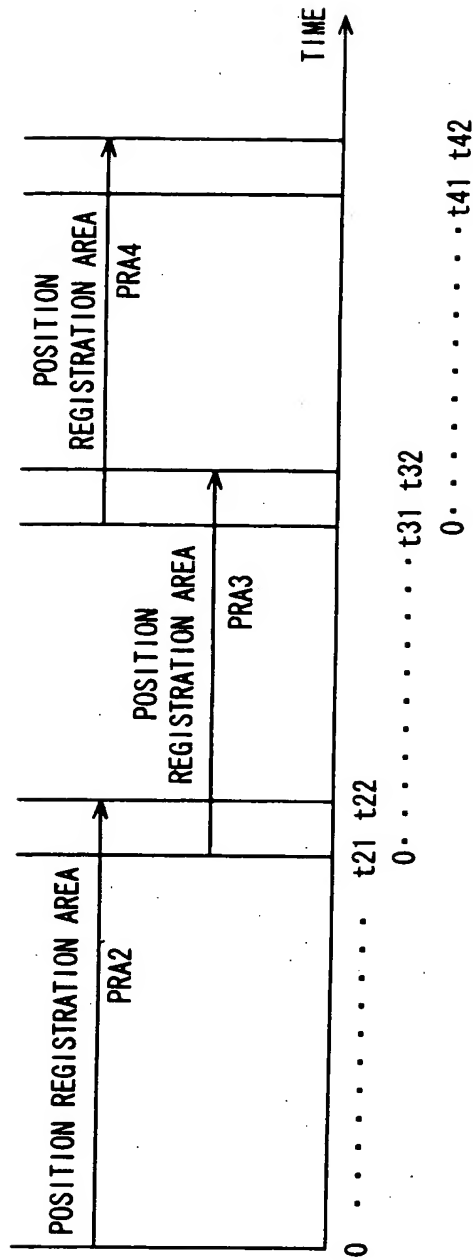


FIG. 6**RULE FOR AUTOMATIC POSITION
REGISTRATION CHANGEOVER****RULE CONFIRMATION PORTION**

RADIO ZONE ID	TRAVEL TIME	
C2→C8	tM11~tM12	RL1
C5→C14	tM21~tM22	RL2

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME	
L2	t21~t22	RL1
L3	t31~t32	
L4	t41~t42	
L5	t51~t52	RL2
L6	t61~t62	
L7	t71~t72	

FIG. 7

1	1			2			3					
	1			1			1					
	1			1			1					
1	1	C2→C8	tM11	tM12	L2	POSITION REGISTRATION AREA ID		CHANGEOVER TIME				
						L3	L4	L5	L6	L7	MINIMUM VALUE	MAXIMUM VALUE
											t21	t22
											t31	t32
											t41	t42
											t51	t52
											t61	t62
2	C5→C14	tM21	tM22	L5	L6	L7	t71	t72				
									t21	t22		
									t31	t32		
									t41	t42		
									t51	t52		
									t61	t62		
									t71	t72		

FIG. 8

NOTIFICATION INFORMATION

INFORMATION ELEMENT
MESSAGE TYPE
NETWORK NO.
STIPULATION INFORMATION
CONTROL CHANNEL STRUCTURE INFORMATION
MOBILE STATION TRANSMISSION POWER DESIGNATION
STANDBY PERMISSION LEVEL
STANDBY DETERIORATION LEVEL
POSITION REGISTRATION AREA MULTIPLEX NUMBER (N)
POSITION NO.
?
POSITION NO.
MAXIMUM REPORTED NUMBER OF CHANNELS
NUMBER (M) OF PERCH CHANNELS FOR RESIDENCE ZONE / SECTOR DETERMINATION
PERCH CHANNEL NO.
?
PERCH CHANNEL NO.
POSITION REGISTRATION TIMER
EXTENSION INFORMATION ELEMENT LENGTH (K)
EXTENSION INFORMATION ELEMENT (RULE FOR AUTOMATIC POSITION REGISTRATION CHANGEOVER)

5

4

RL

RULE FORMAT NO.
RULE FORMAT
NUMBER OF RULES
RULE NO.
RADIO ZONE ID
TRAVEL TIME (MINIMUM VALUE)
TRAVEL TIME (MAXIMUM VALUE)
NUMBER OF POSITION REGISTRATION AREA IDs
POSITION REGISTRATION AREA ID
CHANGEOVER TIME (MINIMUM VALUE)
CHANGEOVER TIME (MAXIMUM VALUE)

- *1 REPEAT BY NUMBER OF POSITION REGISTRATION IDS
- *2 REPEAT BY NUMBER OF RULES
- *3 REPEAT BY NUMBER OF RULE FORMATS

- *3
- *3
- *3
- *2 *3
- *2 *3
- *2 *3
- *2 *3
- *2 *3
- *2 *3
- *1 *2 *3
- *1 *2 *3
- *1 *2 *3

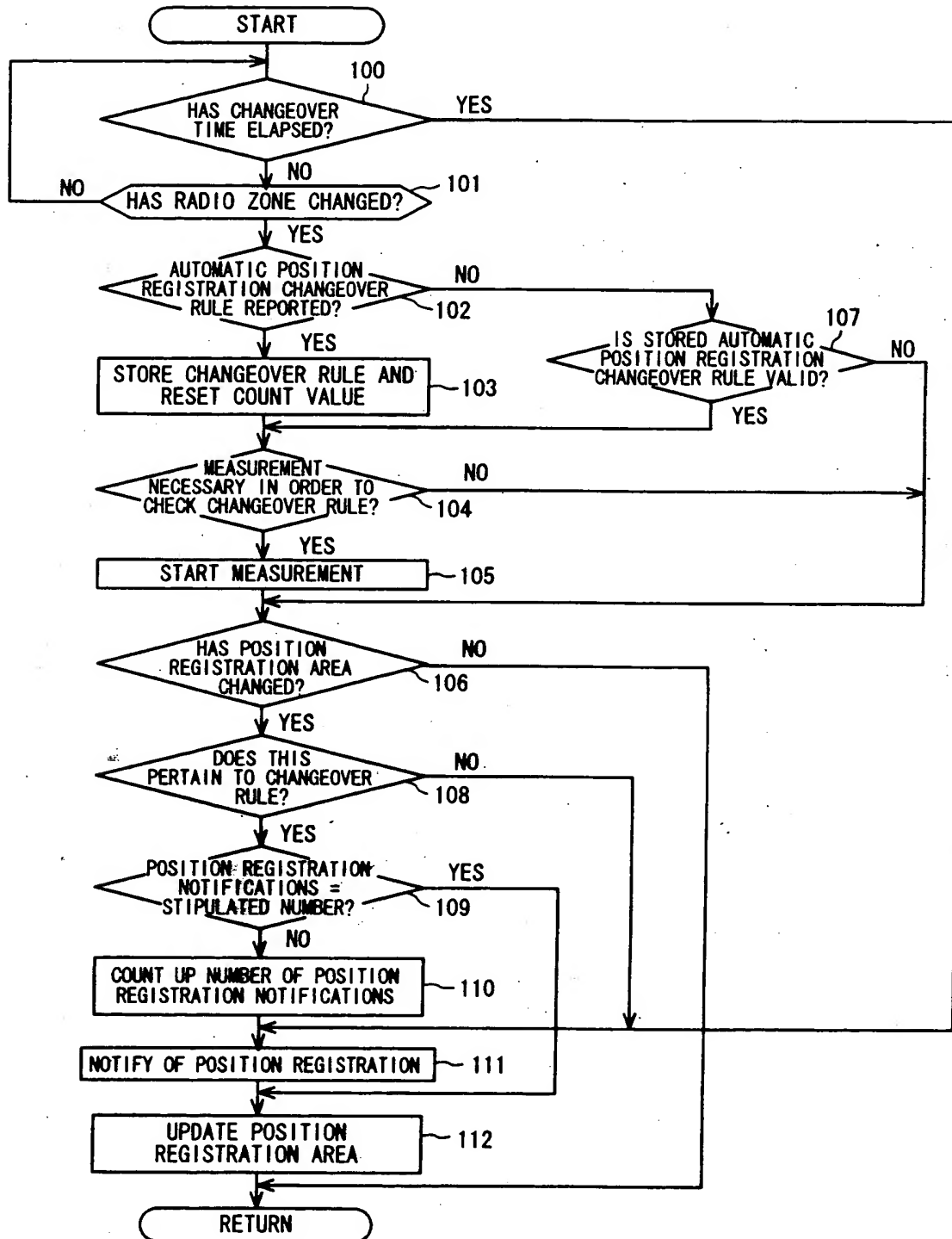


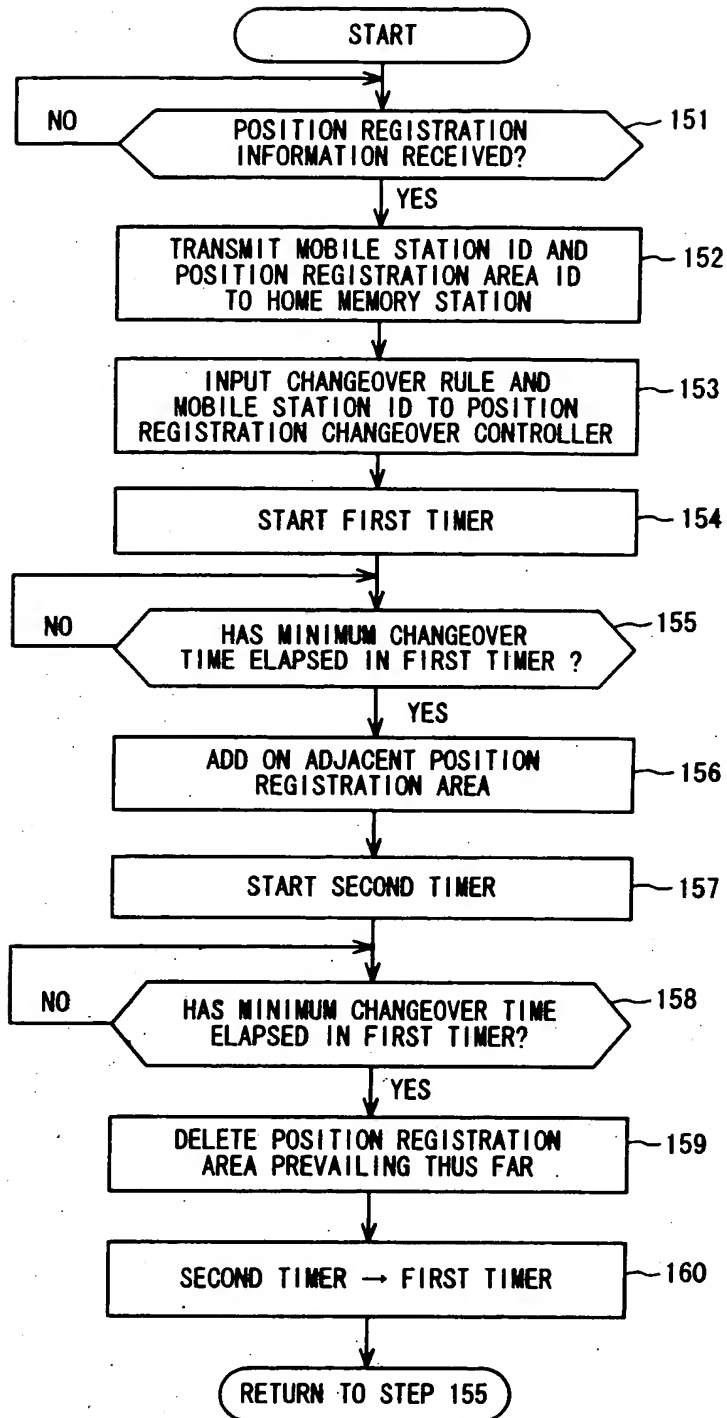
FIG. 10

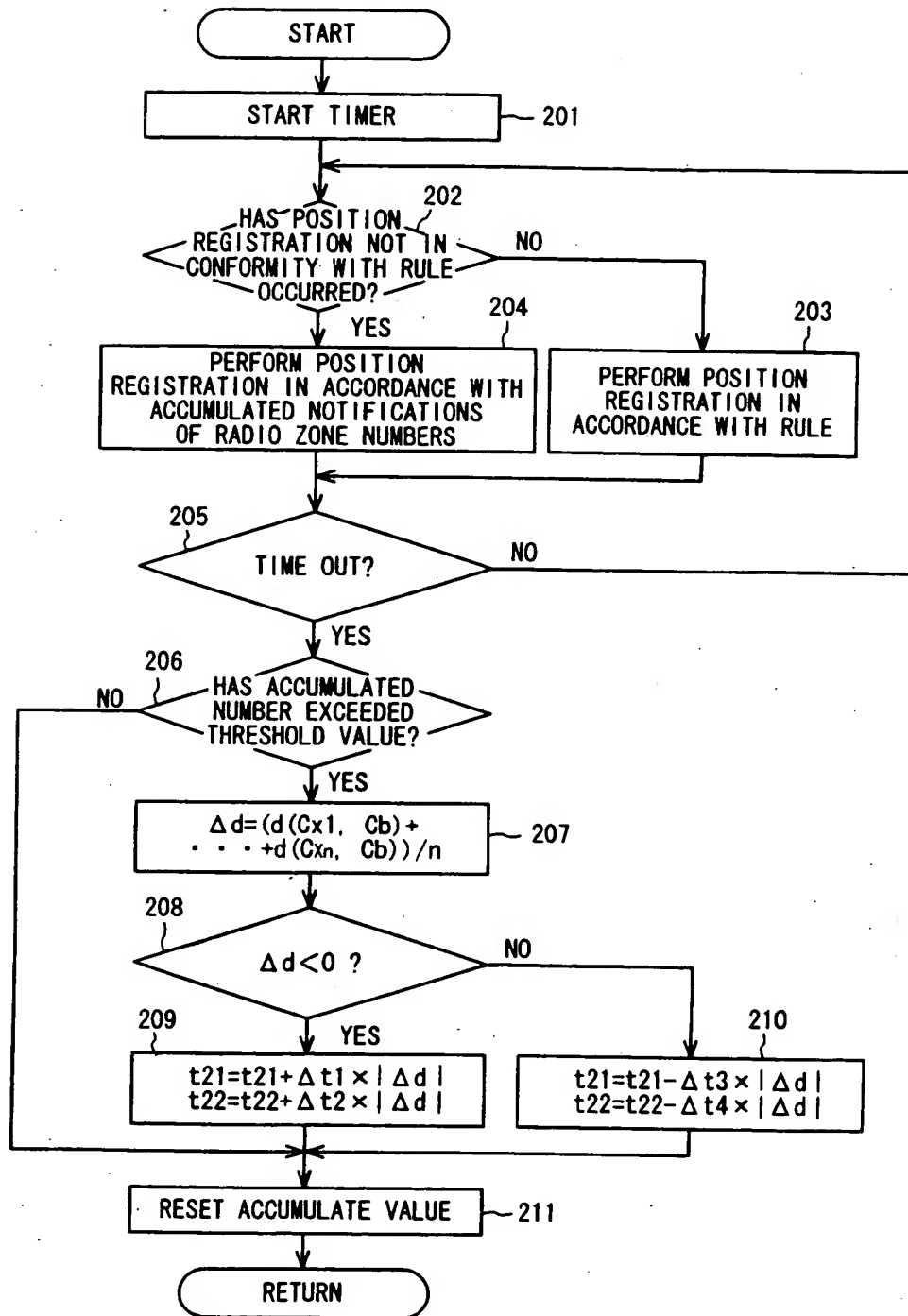
FIG. 11

FIG. 12

RULE NUMBER	RULE CONFIRMATION PORTION			CHANGEOVER RULE PORTION		
	RADIO ZONE ID	TRAVEL TIME		POSITION REGISTRATION AREA ID	CHANGEOVER TIME	
		MINIMUM VALUE	MAXIMUM VALUE		MINIMUM VALUE	MAXIMUM VALUE
1	C2→C8	tm11	tm12	L2	t21	t22
				L3	t31	t32
				L4	t41	t42
				L5	t51	t52
2	C5→C14	tm21	tm22	L6	t61	t62
				L7	t71	t72
				L2	t81	t82
				L3	t91	t92
3	C2→C8	tm31	tm32	L4	t101	t102
				L5	t111	t112
				L6	t121	t122
				L7	t131	t132
4	C5→C14	tm41	tm42	L2	t21	t22
				L3	t31	t32
				L4	t41	t42
				L5	t51	t52

FIG. 13

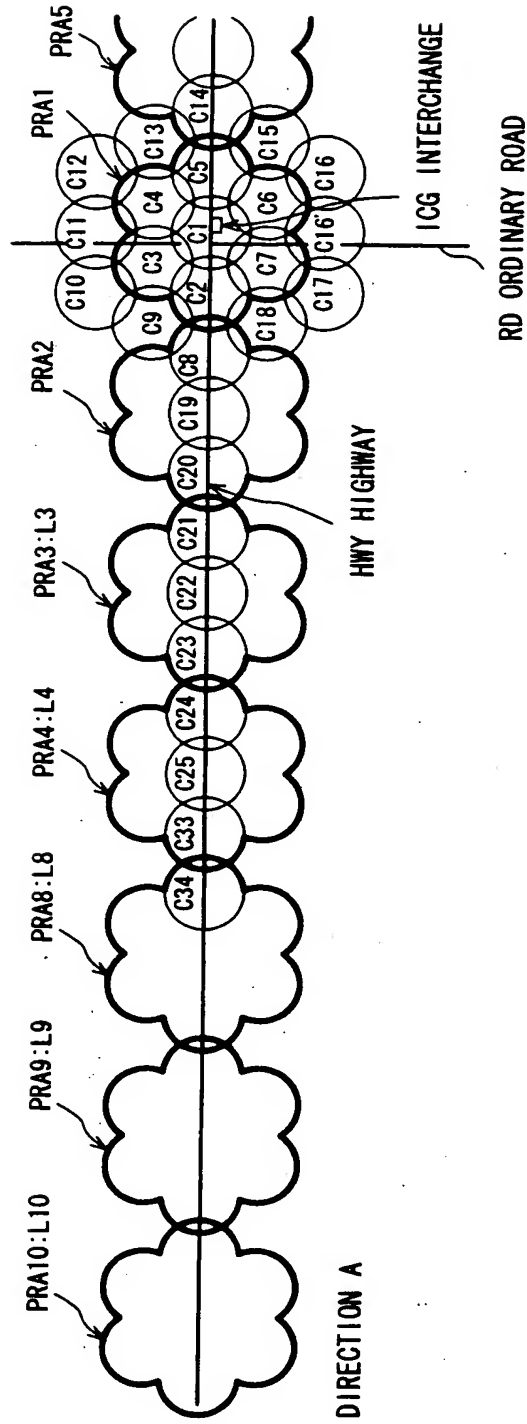


FIG. 14

RULE CONFIRMATION PORTION

RADIO ZONE ID	TRAVEL TIME
C33→C34	tM51~tM52

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L8	t261~t262
L9	t271~t272
L10	t281~t282

FIG. 15

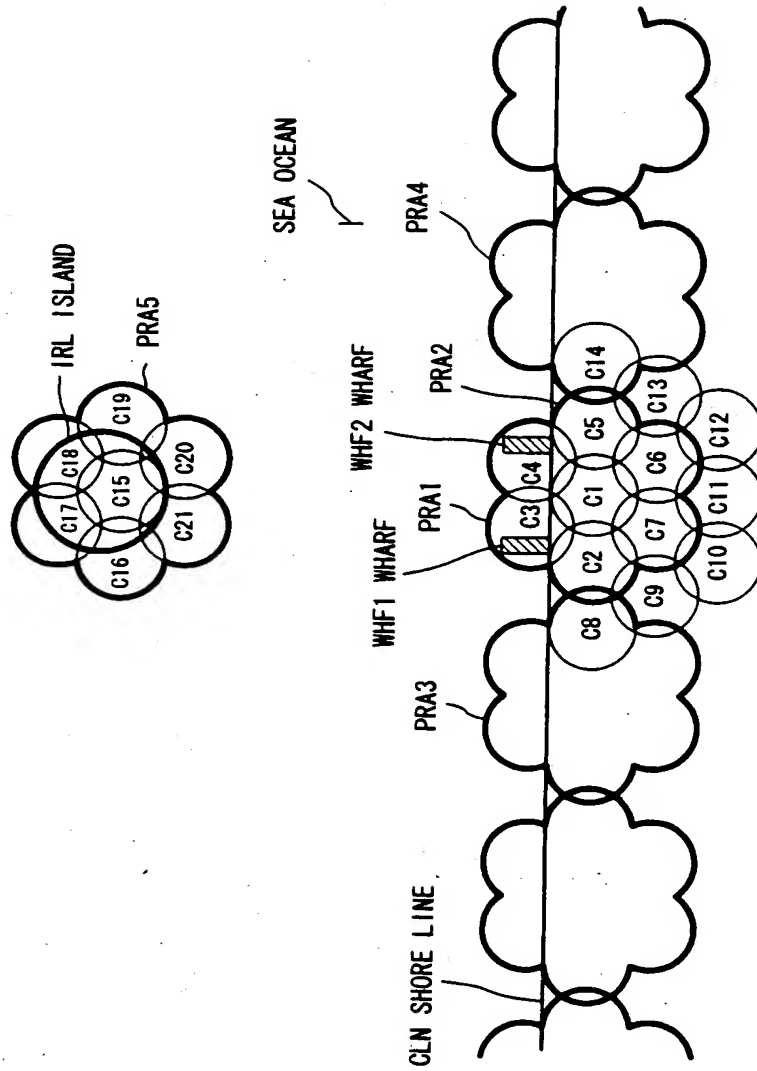


FIG. 16

RULE CONFIRMATION PORTION

2
{

RADIO ZONE ID	TRAVEL TIME
1→3	NONE
1→4	NONE
2→3	NONE
5→4	NONE

RULE CHANGEOVER PORTION

3
{

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L5	t21~t22

FIG. 17

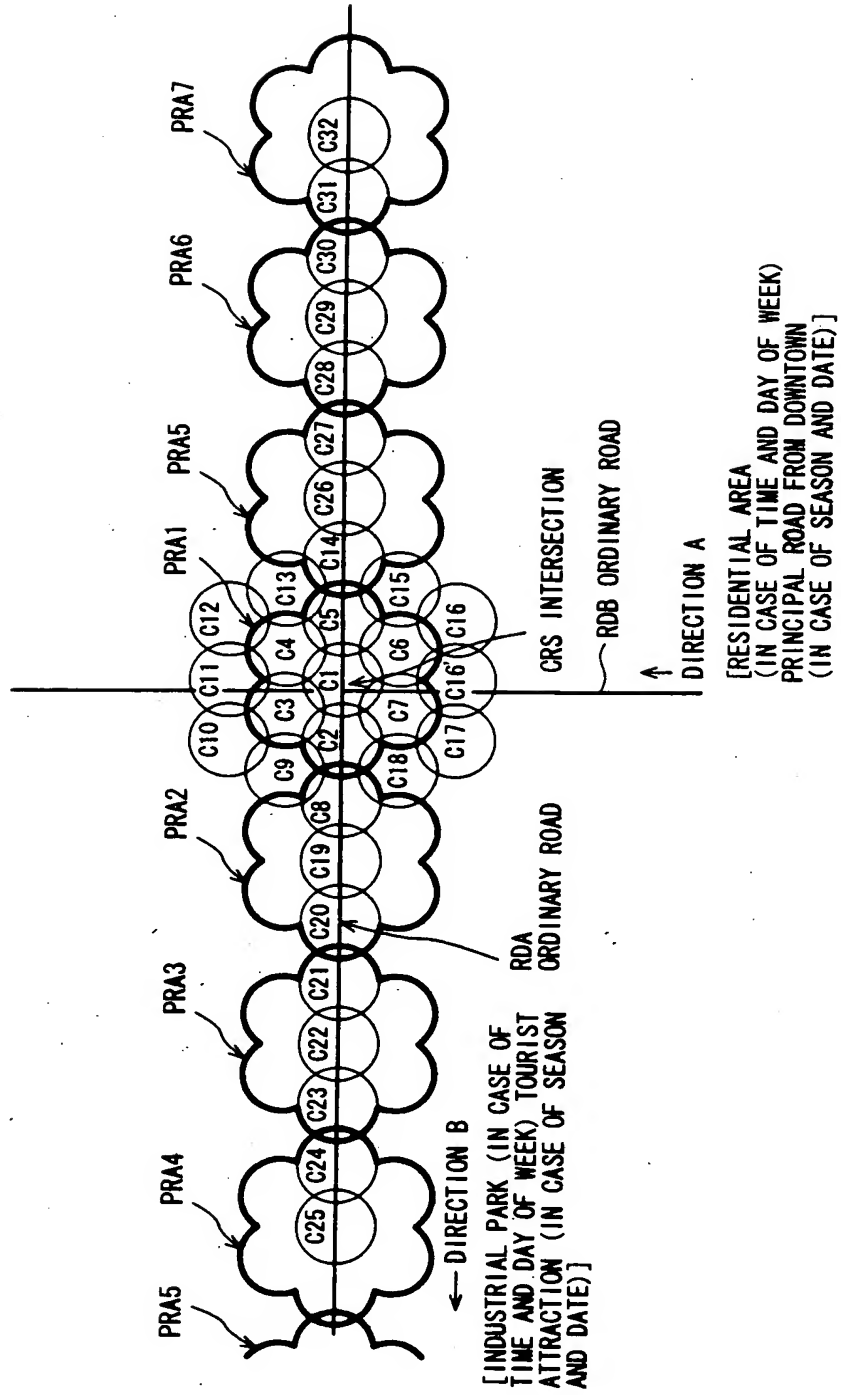


FIG. 18

(a)

RULE FOR AUTOMATIC POSITION
REGISTRATION CHANGEOVER
(WEEKDAYS, 7:30 TO 8:30 AM)

2
}

RADIO ZONE ID	TRAVEL TIME
C2→C8	tM11~tM12

3
}

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L2	t21~t22
L3	t31~t32
L4	t41~t42

(b)

RULE FOR AUTOMATIC POSITION
REGISTRATION CHANGEOVER
(WEEKDAYS AND OTHER TIME PERIODS)

2
}

RADIO ZONE ID	TRAVEL TIME
C2→C8	tM11'~tM12'

3
}

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L2	t21'~t22'
L3	t31'~t32'
L4	t41'~t42'

FIG. 19

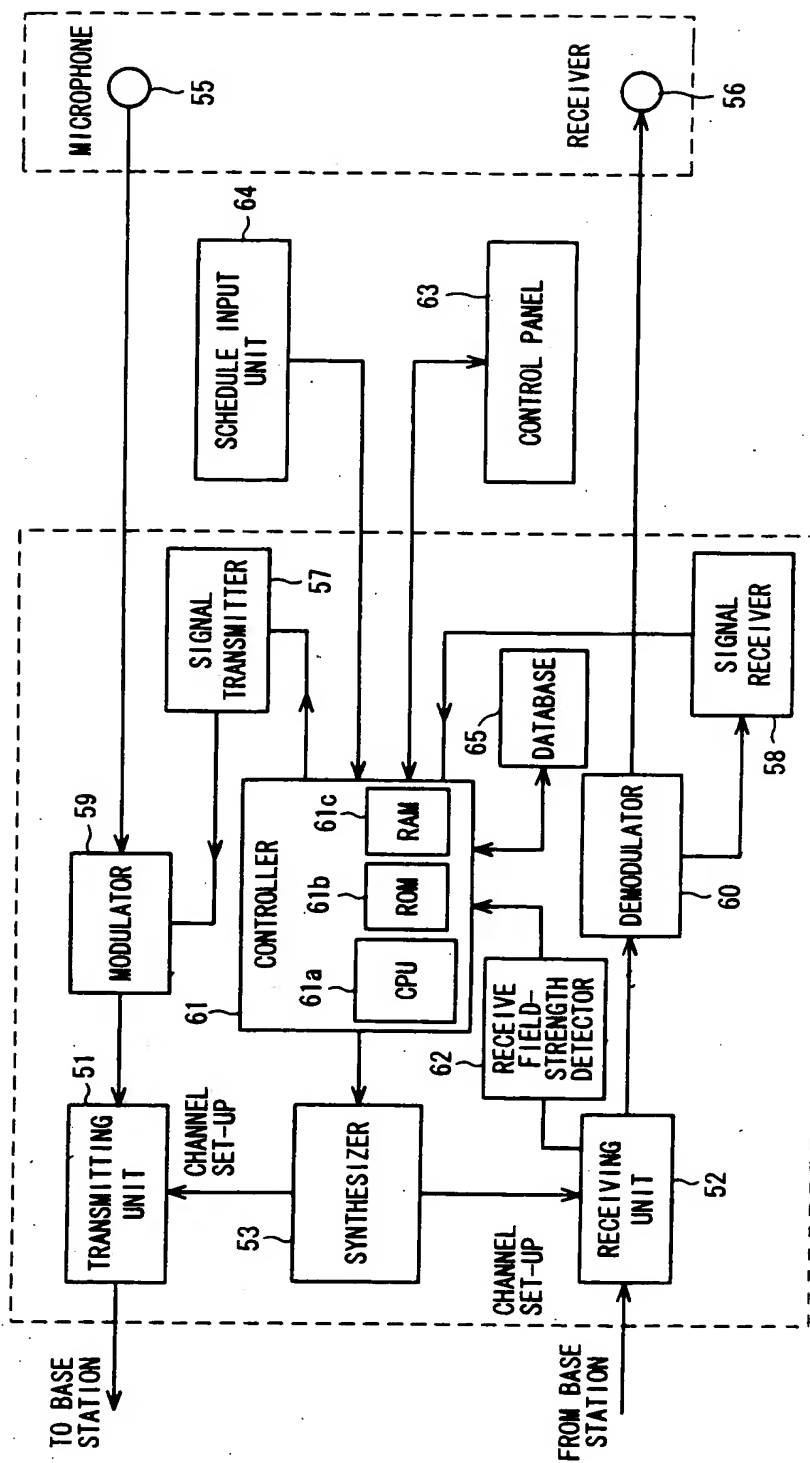


FIG. 20

LOCATION/FACILITY	RADIO ZONE ID
TOKYO Δ Δ HEAD OFFICE	C11
.
.
KAWASAKI Δ Δ FACTORY	C21
.
YOKOHAMA Δ Δ BRANCH	C31
.

FIG. 21

SCHEDULE BOOK	
LOCATION/ FACILITY OF PLANNED STAY	PLANNED DURATION OF STAY (DEPARTURE TIME)
TOKYO Δ Δ HEAD OFFICE	
KAWASAKI Δ Δ FACTORY	
YOKOHAMA Δ Δ BRANCH	

FIG. 22

LOCATION/FACILITY	RADIO ZONE	PLANNED TIME OF STAY
TOKYO Δ Δ HEAD OFFICE	C11	
KAWASAKI Δ Δ FACTORY	C21	
YOKOHAMA Δ Δ BRANCH	C31	

FIG. 23

1 }	2 }	3 }	RULE NO.	RULE CONFIRMATION PORTION	CHANGEOVER RULE PORTION		
					LATITUDE- LONGITUDE INFORMATION	PASS-BY TIME	
						MINIMUM VALUE	MAXIMUM VALUE
1	NONE	e1-n1	t141	t142			
		e2-n2	t151	t152			
		e3-n3	t161	t162			
		e4-n4	t171	t172			
		e5-n5	t181	t182			
		e6-n6	t191	t192			
2	NONE	e7-n7	t201	t202			
		e8-n8	t211	t212			
		e9-n9	t221	t222			
		e10-n10	t231	t232			
		e11-n11	t241	t242			
		e12-n12	t251	t252			
⋮							

FIG. 24

LATITUDE-LONGITUDE	RADIO ZONE	POSITION REGISTRATION AREA
e1-n1		
e2-n2		
----- e _i -n _i	-----	-----

FIG. 25

RULE NO.	RULE CONFIRMATION PORTION	CHANGEOVER RULE PORTION			
		RADIO ZONE NO.	POSITION REGISTRATION AREA NO.	PASS-BY TIME	
				MINIMUM VALUE	MAXIMUM VALUE
1	NONE	C11,	L11	t141	t142
		C111,	L111	t151	t152
		C112,	L112	t161	t162
		C113,	L113	t171	t172
		. . .	t181	t182	
		C21,	L21	t191	t192
2	NONE	C11,	L11	t201	t202
		. . .	t211	t212	
		. . .	t221	t222	
		. . .	t231	t232	
		. . .	t241	t242	
		C31,	L31	t251	t252
.					
.					
.					

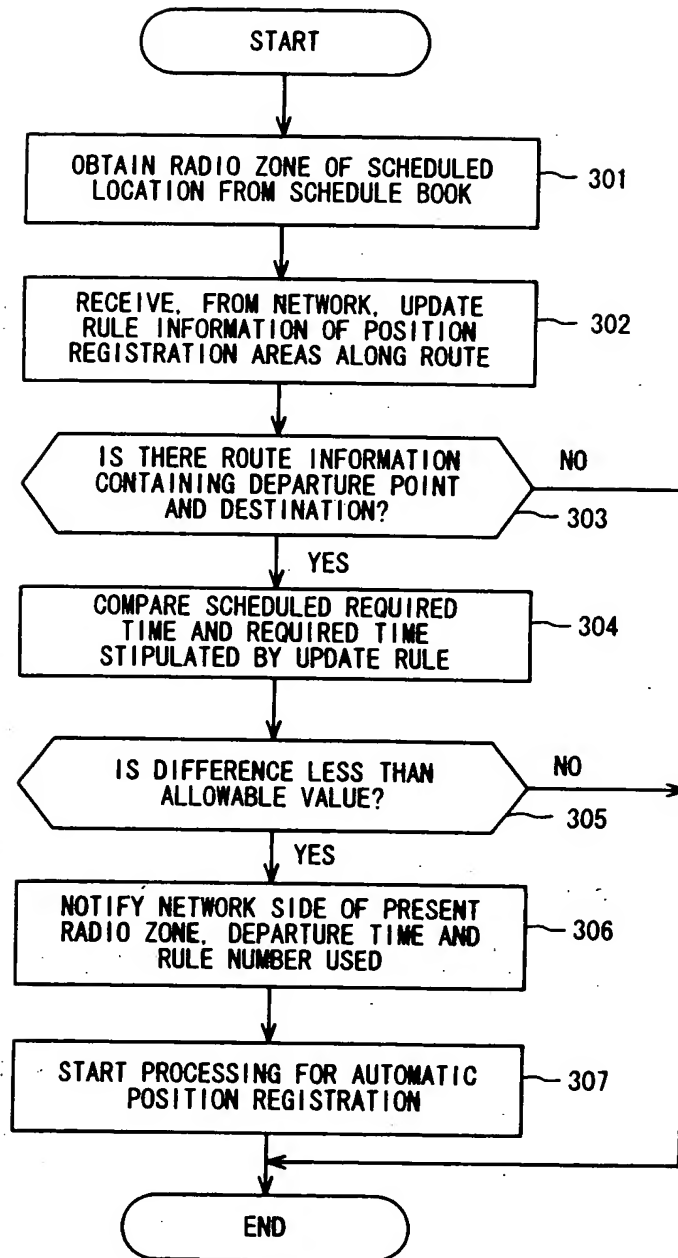
FIG. 26

FIG. 27

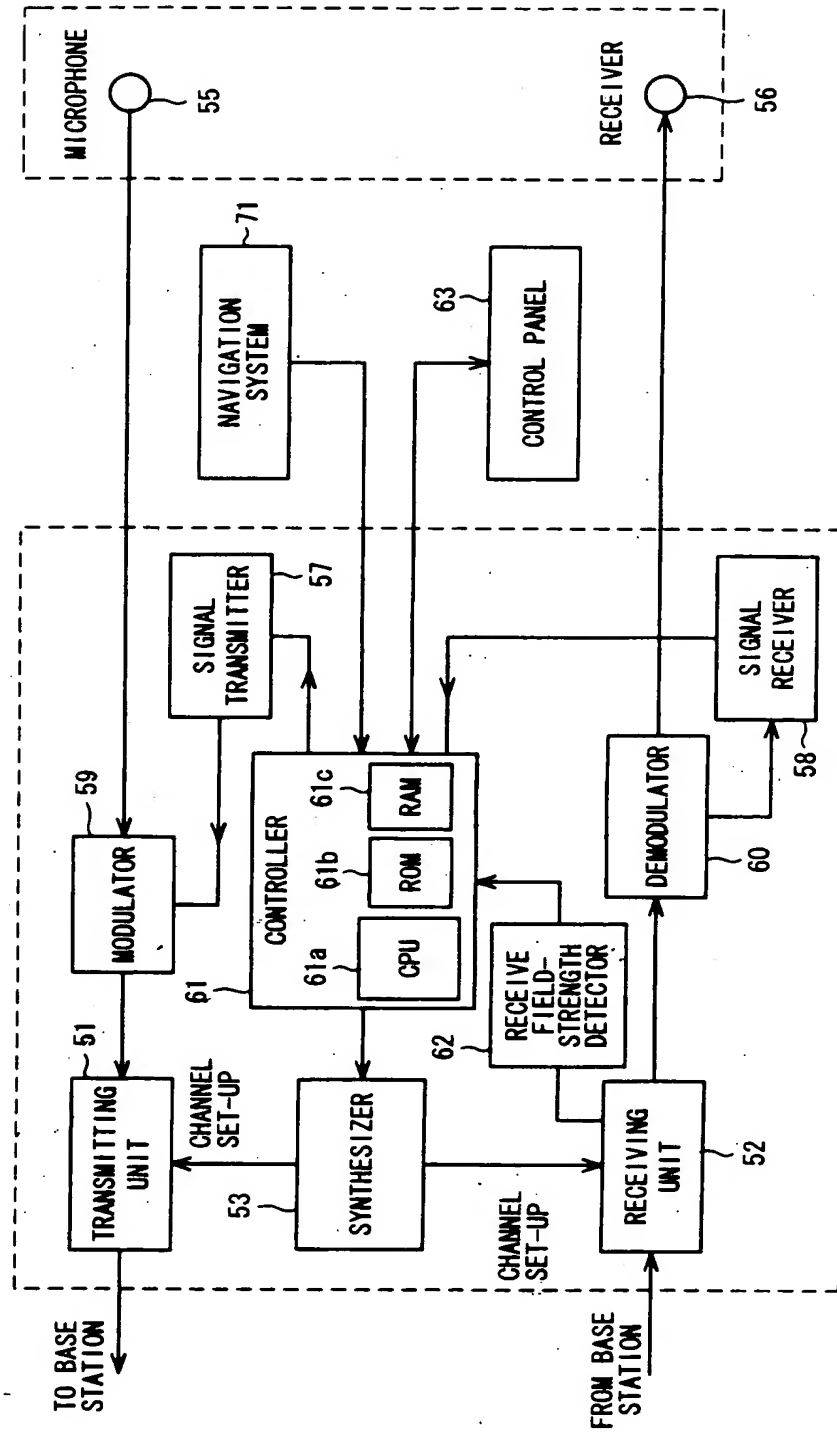


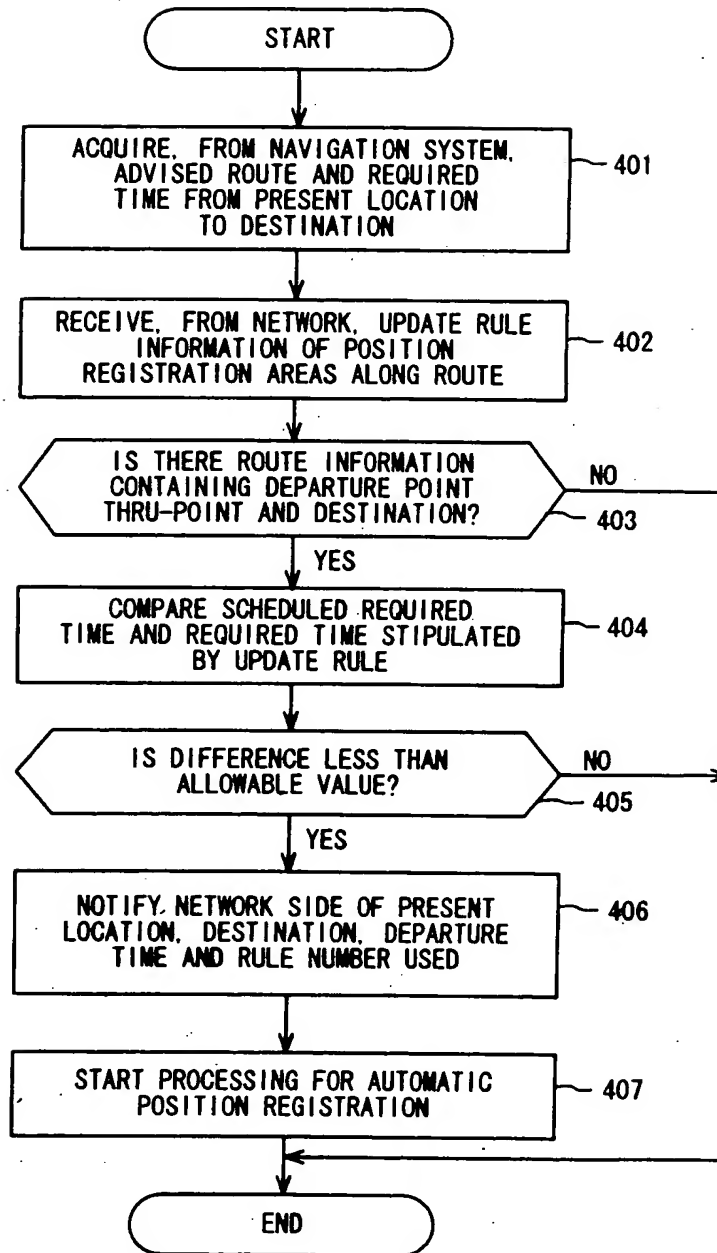
FIG. 28

FIG. 29

4		1		2		3	
RULE FORMAT NO.		RULE DATA					
1	1	RULE NO.	RULE CONFIRMATION PORTION		CHANGEOVER RULE PORTION		
			RADIO ZONE ID	TRAVEL TIME		POSITION REGISTRATION AREA ID	CHANGEOVER TIME
		MINIMUM VALUE		MAXIMUM VALUE			MINIMUM VALUE
	1	C2→C8	tM11	tM12	L2	t21	t22
					L3	t31	t32
					L4	t41	t42
	2	C5→C14	tM21	tM22	L5	t51	t52
					L6	t61	t62
					L7	t71	t72
	3	C2→C8	tM31	tM32	L2	t81	t82
					L3	t91	t92
					L4	t101	t102
	4	C5→C14	tM41	tM42	L5	t111	t112
					L6	t121	t122
					L7	t131	t132
	⋮						
2	2	RULE NO.	RULE CONFIRMATION PORTION		CHANGEOVER RULE PORTION		
				LATITUDE-LONGITUDE INFORMATION	PASS-BY TIME		
		MINIMUM VALUE			MAXIMUM VALUE		
	1	NONE	e1-n1	t141	t142		
			e2-n2	t151	t152		
			e3-n3	t161	t162		
			e4-n4	t171	t172		
			e5-n5	t181	t182		
			e6-n6	t191	t192		
	2	NONE	e7-n7	t201	t202		
			e8-n8	t211	t212		
			e9-n9	t221	t222		
			e10-n10	t231	t232		
			e11-n11	t241	t242		
			e12-n12	t251	t252		
	⋮						

FIG. 30

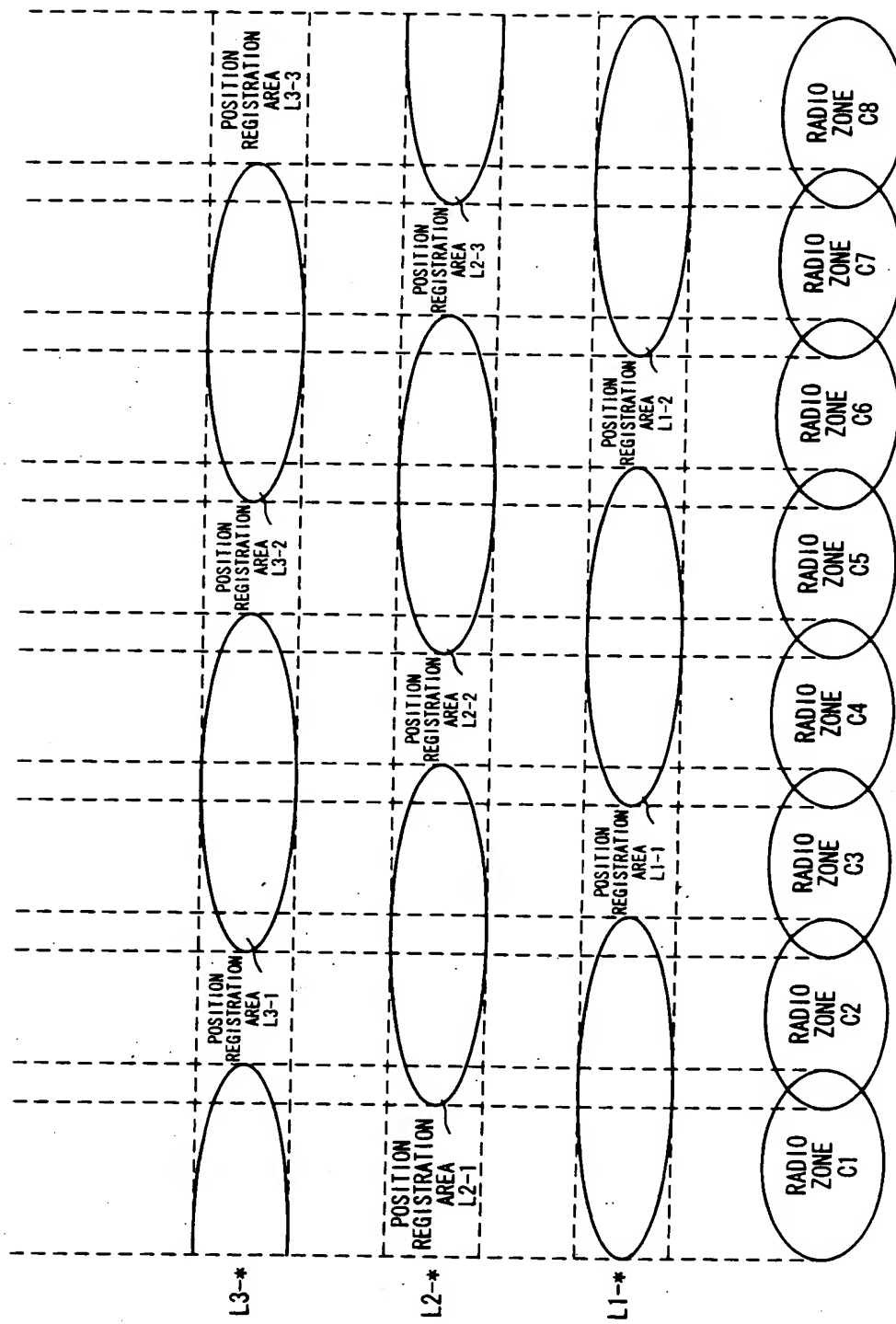


FIG. 31

(a)

RULE NO. 1 OF RADIO ZONE 5

RULE CONFIRMATION PORTION { 2

RADIO ZONE ID	TRAVEL TIME
C5→C6	tM81~tM82

CHANGEOVER RULE PORTION { 3

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L1-2	t271~272
L1-3	t281~282
L1-4	t291~292

(b)

RULE NO. 2 OF RADIO ZONE 5

RULE CONFIRMATION PORTION { 2

RADIO ZONE ID	TRAVEL TIME
C5→C4	tM91~tM92

CHANGEOVER RULE PORTION { 3

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L2-2	t301~302
L2-1	t311~312
L2-0	t321~322

FIG. 32

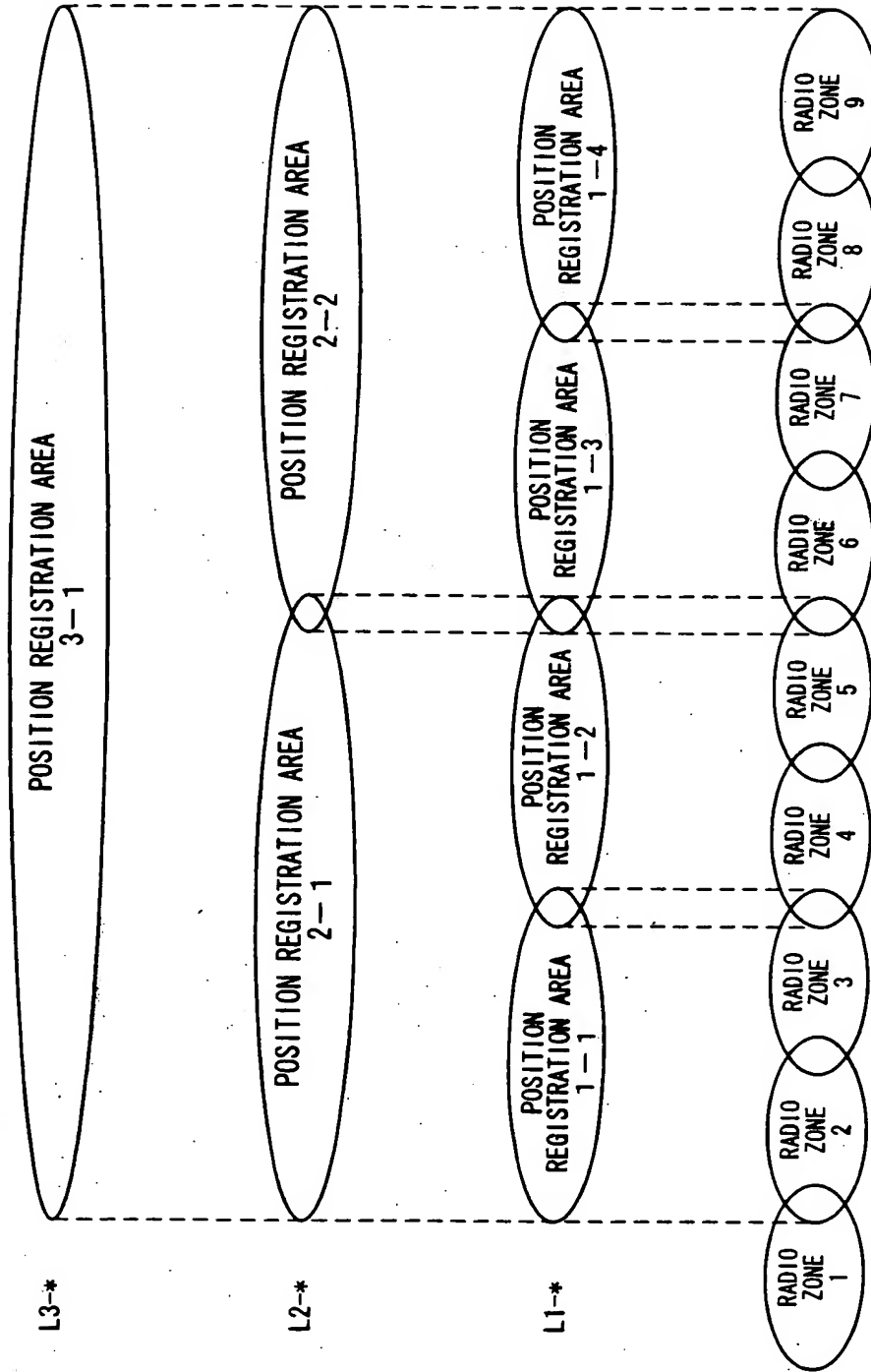


FIG. 33

CHANGEOVER-FREQUENCY NOTIFICATION INFORMATION

HIGHER-ORDER AREA CHANGEOVER FREQUENCY	*1, 2
LOWER-ORDER AREA CHANGEOVER FREQUENCY	*1, 3

*1 UNITS: SECONDS

*2 IF UPDATING OF POSITION REGISTRATION AREA WAS REQUIRED IN TIME SHORTER THAN THIS TIME, CHANGE TO LARGE POSITION REGISTRATION AREA

*3 IF UPDATING OF POSITION REGISTRATION AREA WAS NOT REQUIRED WITHIN THIS TIME, CHANGE TO SMALL POSITION REGISTRATION AREA

FIG. 34

RULE FOR AUTOMATIC POSITION REGISTRATION CHANGEOVER

(a) RULE OF RADIO ZONE 1

RULE NO. 1

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C1→C2	tM101~tM102

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L1-1	t271~272
L1-2	t281~282
L1-3	t291~292

RULE NO. 2

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C1→C2	tM111~tM112

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L2-1	t301~302
L2-2	t311~312
L2-3	t321~322

RULE NO. 3

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C1→C2	tM121~tM122

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L3-1	t301~302
L3-2	t311~312
L3-3	t321~322

(b) RULE OF RADIO ZONE 2

RULE NO. 1

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C2→C3	tM131~tM132

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L1-1	t331~332
L1-2	t341~342
L1-3	t351~352

RULE NO. 2

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C2→C3	tM141~tM142

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L2-1	t361~362
L2-2	t371~372
L2-3	t381~382

RULE NO. 3

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C2→C3	tM151~tM152

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L3-1	t391~392
L3-2	t401~402
L3-3	t411~422

(c) RULE OF RADIO ZONE 3

RULE NO. 1

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C3→C4	tM161~tM162

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L1-2	t421~422
L1-3	t431~432
L1-4	t441~442

RULE NO. 2

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C3→C4	tM171~tM172

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L2-1	t451~452
L2-2	t461~462
L2-3	t471~472

RULE NO. 3

RULE CONFIRMATION
PORTION

RADIO ZONE ID	TRAVEL TIME
C3→C4	tM181~tM182

CHANGEOVER RULE PORTION

POSITION REGISTRATION AREA ID	CHANGEOVER TIME
L3-1	t481~482
L3-2	t491~492
L3-3	t501~502

FIG. 35

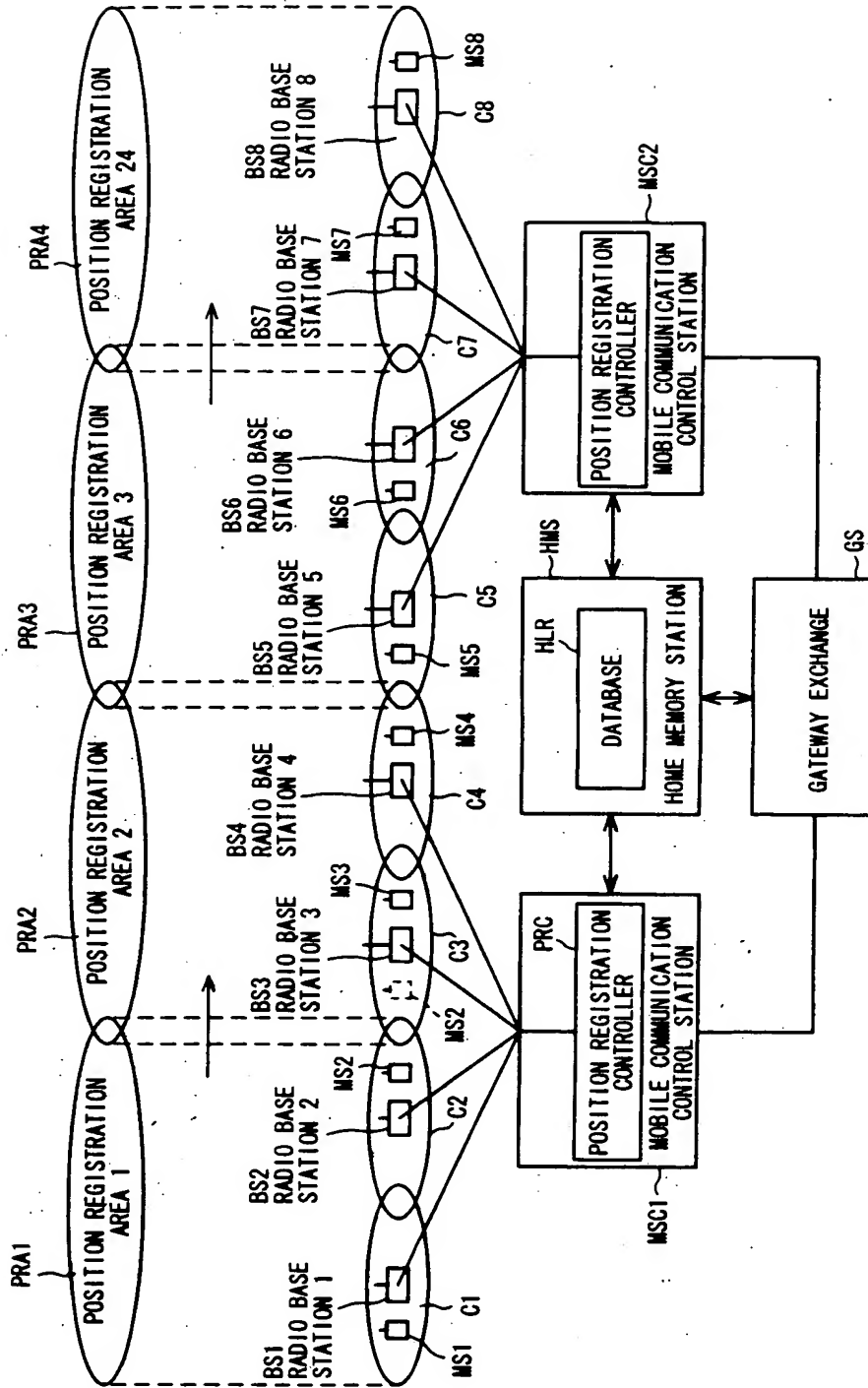


FIG. 36

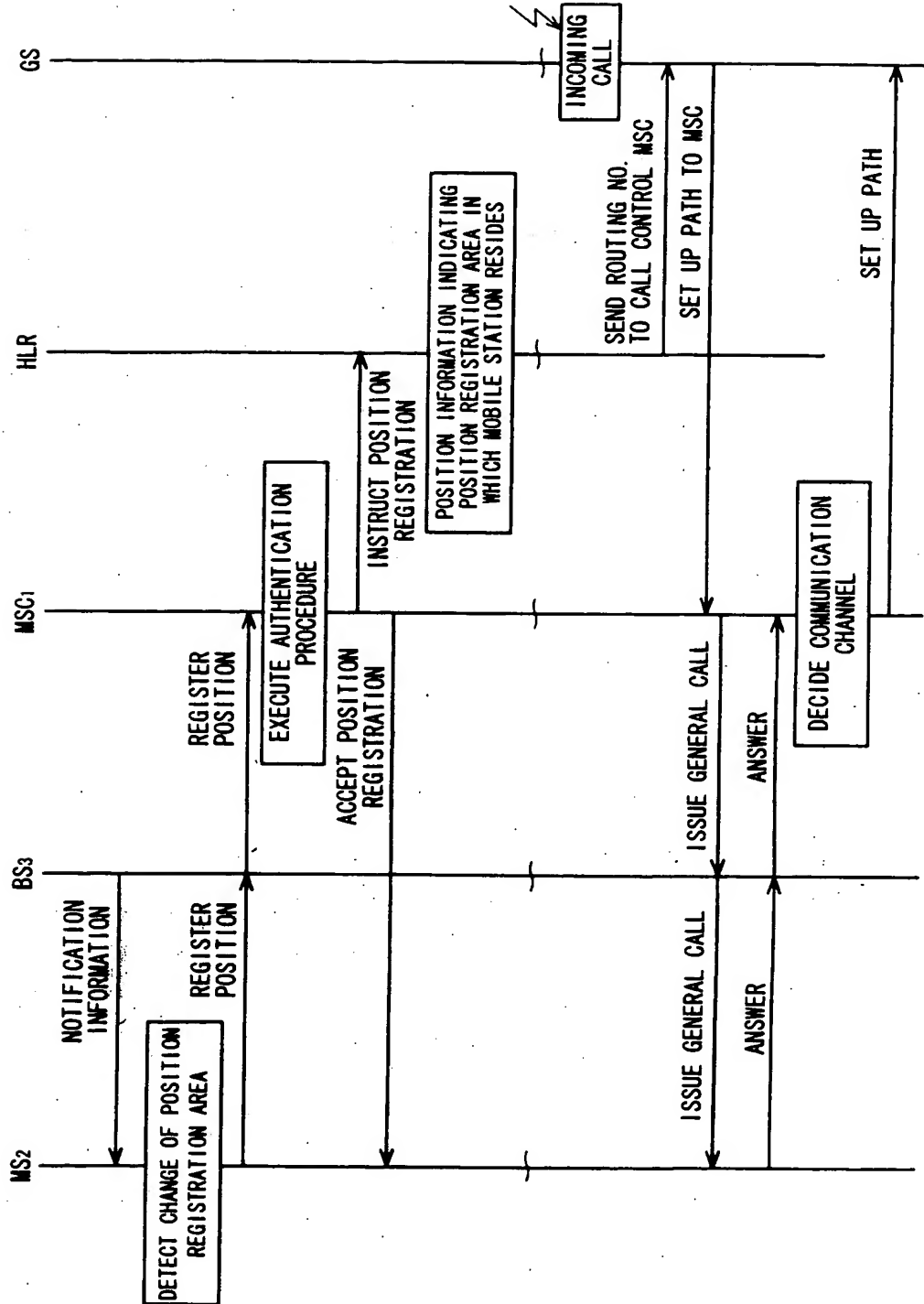


FIG. 37

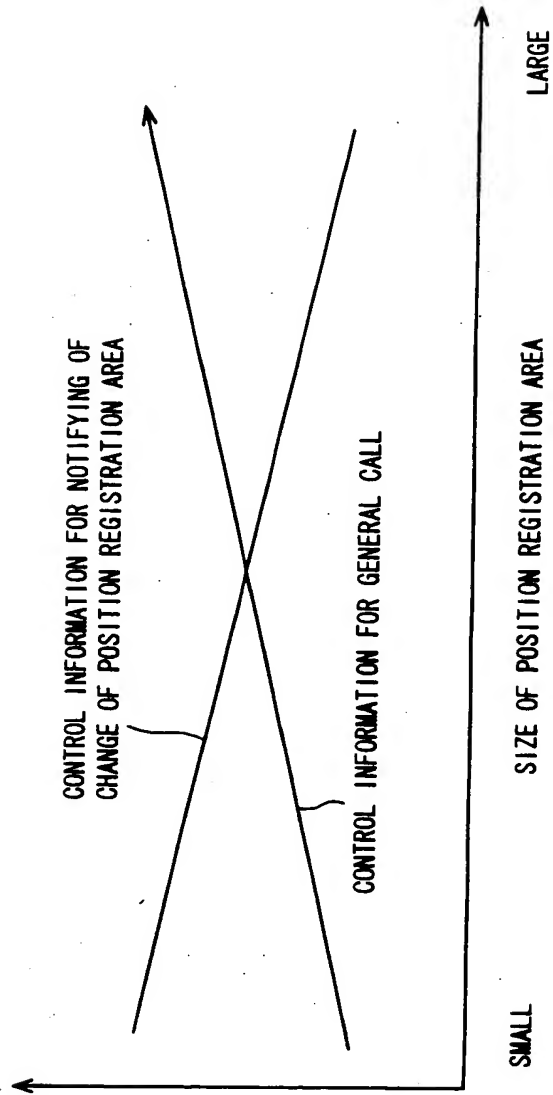


FIG. 38